

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	5	(overvoltage near2 protection and overcurrent near2 protection and circuit near2 board).clm.	US-PGPUB	OR	ON	2006/10/11 07:13

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	5	(overvoltage near2 protection and overcurrent near2 protection and circuit near2 board).clm.	US-PGPUB	OR	ON	2006/10/11 07:13
S23 9	1	("6628498").PN.	US-PGPUB; USPAT	OR	OFF	2006/10/11 07:12
S23 8	142	(337/31).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/10 13:21
S23 7	30	S231 and (zener thyristor voltage near2 variable MOV varistor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/10 13:08
S23 6	746	(361/104).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/10 13:05
S23 5	34	S234 and (PTC thermistor) and (MOV varistor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/10 13:05
S23 1	30	S230 and (PTC thermistor) and (MOV varistor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/10 13:05
S23 4	2807	(361/91.1,111,104).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/10 13:03
S23 3	8	S232 and (MOV varistor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/10 13:03
S23 2	350	(337/31,183,404).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/10 13:01
S22 4	12	S223 and (PTC thermistor) and (MOV varistor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/10 13:01
S23 0	903	(361/119).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/10 12:57
S22 9	5	("5404126"   "5708553"   "5781394"   "5901027"   "6252488").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 12:57
S21 2	216	S211 and (PTC thermistor) and (MOV varistor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/10 12:57

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S22 8	4	("5621375"   "5664320"   "5726621"   "5774037").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 12:50
S22 7	172	S226 and (via hole heat near2 sink)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/10 11:37
S21 1	290693	(substrate layer ceramic) near3 (via hole heat near2 sink)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/10 11:37
S22 6	263	(substrate layer ceramic) and S223	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/10 11:36
S22 5	1	("4284970").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 11:34
S22 3	897	(361/103).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/10 11:31
S22 2	22	("3287684"   "3861029"   "4034207"   "4037082"   "4051550"   "4099216"   "4162395"   "4174511"   "4177446"   "4177785"   "4237411"   "4247441"   "4388607"   "4413174"   "4413301"   "4426339"   "4445026"   "4467310"   "4481498"   "4542365"   "4549161").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 11:31
S20 6	53	S205 and (PTC thermistor) and (MOV varistor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/10 11:31
S22 1	8	("5386335").URPN.	USPAT	OR	ON	2006/10/10 11:11
S22 0	5	("4198613"   "4695916"   "5034709"   "5146200"   "5155649").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 11:10
S21 9	56	("2386903"   "2947844"   "3369207"   "3444399"   "3503030"   "3505632"   "3614345"   "3673538"   "3737622"   "3828292"   "3839692"   "3872418"   "4223209"   "4237441"   "4238812"   "4315237"   "4316080"   "4317027"   "4426633"   "4450496"   "4486737"   "4504817"   "4545926"   "4562313"   "4685025"   "4689475"   "4724417"   "4774024"   "4780598"   "4800253"   "4845838"   "4857880"   "4859836"   "4907340"   "4924074"   "4935156"   "4967176"   "5049850"   "5089801"   "5097247"   "5153805"   "5166658"   "5378407"   "5386335"   "5436609"   "5453726"   "5663702"   "5668522"   "5831510"   "5852397").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 11:06
S21 8	23	("3673538").URPN.	USPAT	OR	ON	2006/10/10 11:04
S21 7	2	("2248623").URPN.	USPAT	OR	ON	2006/10/10 10:45

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S21 6	11	("2248623"   "3113194"   "3338476"   "3476293"   "3586939"   "3646315"   "3689863").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:45
S21 5	14	("1728045"   "2606986"   "3214719"   "3375774"   "3584189"   "3720807"   "3748439"   "3805022"   "3835434").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:44
S21 4	3	("3805022"   "3976854"   "4068281").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:41
S21 3	34	("1364080"   "2712591"   "3405381"   "3452314"   "3654580"   "3673538"   "3719796"   "3805022"   "3813631"   "3824521"   "3916264"   "3996447"   "4024427"   "4064477"   "4152689"   "4317027"   "4387291"   "4420739"   "4427965"   "4568907"   "4698614"   "4816958"   "4937696"   "5064997"   "5208576"   "5353005"   "5379022"   "5436609"   "5644461"   "5796568").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:40
S33	141895	(substrate layer ceramic) near3 (via hole heat near2 sink)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:15
S21 0	5	("4494104"   "5097247"   "5712610"   "6300859"   "6373371").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:12
S20 9	25	S207 and S208	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/10 10:11
S20 8	342	overcurrent near5 (layer ceramic substrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/10 10:10
S20 7	835	overvoltage near5 (layer ceramic substrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/10 10:10
S26	90	overcurrent near5 (layer ceramic substrate)	USPAT	OR	ON	2006/10/10 10:10
S25	361	overvoltage near5 (layer ceramic substrate)	USPAT	OR	ON	2006/10/10 10:10
S20 5	2071	S204 and (PCB printed near2 circuit near2 board)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/10 10:04
S20 4	26900	S202 and S203	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/10 10:04

## EAST Search History

S20 3	143874	(excess exceed\$2 over spike surge) near2 voltage	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/10 10:04
S19 6	127	S195 and (PCB printed near2 circuit near2 board)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/10 10:04
S15	97794	(excess exceed\$2 over spike surge) near2 voltage	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:04
S20 2	131560	(excess exceed\$2 over spike surge) near2 current	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/10 10:03
S14	91868	(excess exceed\$2 over spike surge) near2 current	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:03
S20 1	30	("0928398"   "0934704"   "1197693"   "2429088"   "4188651"   "4212045"   "4271045"   "4311520"   "4321089"   "4324582"   "4364021"   "4505787"   "4514321"   "4733018"   "4747014"   "4987515"   "5039452"   "5062891"   "5091820"   "5131941"   "5321223"   "5407473"   "5410135"   "5443560"   "5471721"   "5480834").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 10:00
S20 0	14	S198 and S199	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/10 09:59
S19 9	1445	PTC near2 (layer ceramic substrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/10 09:59
S11	531	PTC near2 (layer ceramic substrate)	USPAT	OR	ON	2006/10/10 09:59
S19 8	1478	varistor near2 (layer ceramic substrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/10 09:58
S19 7	359	varistor near2 (layer ceramic substrate)	USPAT	OR	ON	2006/10/10 09:58
S10	335	varistor near2 (layer ceramic substrate)	USPAT	OR	ON	2006/10/10 09:58
S1	68	overcurrent and PTC near2 layer	US-PGPUB; USPAT	OR	ON	2006/10/10 09:58

## EAST Search History

S19 5	737	(surge near2 suppression voltage near3 suppression overvoltage near3 suppression) and (overcurrent current near3 surge current near3 spike overcurrent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/10 09:42
S13 7	610	(surge near2 suppression voltage near3 suppression overvoltage near3 suppression) and (overcurrent current near3 surge current near3 spike overcurrent)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/10 09:41